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BARLEY STATISTICS

WITH

SPECIAL REFERENCE TO CALIFORNIA

by

John B. Schneider and Dallas W. Smythe

July, 1934

Contribution from the

Giannini Foundation of Agricultural Economics

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BARLEY STATISTICS WITH SPECIAL REFERENCE TO CALIFORNIA

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The following tables are organized to show:

- I. The Production of Barley
- II. The Disposition of the California Barley Supply
- III. The Export Market for California Barley
- IV. The Domestic Malting Market for California Barley
- V. The Domestic Feed Market for California Barley

Section I.-- Three tables give statistics concerning the production of barley. Table 1 shows production in each of the ten leading producing nations and the world total. The relation of California production to that of the United States together with acreage and yield per acre are shown in table 2. Table 3 reveals the shifting relative importance of the seven principal barley-producing states.

Section II. -- California production, carryover, exports, domestic supply and consumption are shown in table 4. Table 5 indicates the disposition of the California barley supply as between exports, California malting use and feed requirements.

Section III. This section deals with the export market for California barley, analyzing first the exports from California by countries of destination (table 6). Since the United Kingdom is the principal export market for California barley, the remainder of the tables in this section cover different aspects of that market. Table 7 shows barley production and imports for the United Kingdom. Imports are indicated by countries of origin in table 8. The estimated requirements for the various uses of barley in the United Kingdom appear in table 9. The trend in beer production in the United Kingdom is presented in table 10. A comparison of malting barley prices in Chicago, San Francisco, Hull and London appears in table 11.

Section IV.-- The domestic malting market for California barley is dealt with in three tables: table 12, the United States consumption of barley malt and the percentage supplied by imports; table 13, United States production of beer, barley malt used for beer, distilled spirits and alcohol; table 14, production and sales of beer by California breweries since April, 1933 (the month in which the unlimited production and sale of beer of 3.2 per cent alcoholic content by weight was legalized).

Section V.-- The domestic feed market for California barley is analyzed with reference to several factors. Table 15 indicates the changing livestock population in California. Egg shipments from California and hatchery sales in California are shown to indicate the possible trend in chicken population. Various commodities compete with barley for use as feed. Annual average wholesale prices for feed barley, feed wheat, feed concentrates, No. 2 yellow corn, and sacked mile appear in table 16. Table 17 and figure 1 show the relation between feed barley prices and the prices of these competing commodities.

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Barley: World Production, Annual, 1926-1933, and Averages 1926-1929, 1930-1933 TABLE 1

Estimated world total excluding Russia and China	Other countries Estimated world total . excluding China	Russia United States Germany India Rumania Canada North Africa & United Kingdom Chile Australia	Country
34,445	17,571	1,000 tons 5,905 3,937 2,712 2,905 1,848 2,400 1,632 1,152 1,152 1,20	1926
39,973	16,395 39,846	1,000 tons 4,873 5,761 3,025 2,856 1,392 2,328 1,896 1,056 1,056 1,44	1927
40,086	17,211 46,327	1,000 tons 6,241 7,921 3,697 2,352 1,656 3,265 2,400 1,272 144 168	1928
41,767 40,278	19,323 49,712	1,000 tons 7,945 6,721 3,505 2,833 3,025 2,448 2,352 1,248 1120 1192	1929
	18,291 17,859 47,743 40,662	1,000 tons 7,465 7,297 3,145 2,568 2,616 3,241 1,944 912 96 168	1930
35,261	17,859 40,662	1,000 tons 5,401 4,777 3,337 2,688 1,560 1,608 2,256 936 72 168	1931
39,749	19,539 45,294	1,000 tons 5,545 7,249 3,553 2,664 1,608 1,944 2,256 936 +	1932
34,949	20,955 43,590	1,000 tons 8,641 3,745 3,817 + 2,064 1,512 2,088 768 +	1933*
37,818	17,625 44,059	1,000 tons 6,241 6,085 3,235 2,736 1,980 2,610 2,610 2,610 1,182 1,182 1,22	Aver 1926-
85.8	40.0 1 100.0 4	14.2 13.8 7.3 6.2 4.5 9.7	age 1929
38,345	9,161	1,000 tons 6,763 5,767 3,463 2,640 1,962 2,076 2,136 888 848 848 1689	Average 1930-1933
85.0	42.5	rent 15.0 12.8 7.7 5.8 4.6 4.6 4.7 2.0 0.2	1ge 1933

^{*} Preliminary.

t Data for Chile and Australia in 1932 and for India, Chile and Australia in 1933 are not available. *Three-year average.

Morocco, Algeria, and Tunis.

Two-year average.

Source of data: U. S. Dept. Agr. Bur. Agr. Econ. Fore Bushels converted to tons at 41.66 bushels per ton. Foreign Crops and Markets, March 5, 1934. p. 254-5.

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Barley: Acreage, Yield and Production California and United States, 1921-1933

¥ > > >		Cal:	California	Colifornio	3			United States
Year	Acreage	Yield	Production	California	Acreage		Yield	
harvested	harvested	per acre		production	harvested		per acre	per
				as percent- age of col.7				
	1	2	3	4	SI		က	6 7
	1,000 acres	100 pounds	1,000 tons	per cent	1,000 acre	es	es 100 pounds	s 100
1921	1,188	12.0	713	22.7	7,073	04	00	0.00
92	1,129	•	826	22.4	9	9	9 11.2	9 11.2 3,
1923	1,095	14.5	794	20.8	7,150	0	0 10.7	10.7
1924	765	10.5	402	10.1	6,91	0	0 11.5	11.5
1925	1,050	14.9	781	16.9	•	<u>o</u>	6 11.5	11.5 4
S	1,080	14.4	778	19.8	7,840	Ö	0 10.0	10.0 3
\sim	994	•	656	11.3	9,41	9	12.	12.3 5,
1928	1,044	•	764	9.6	12,710		12.	12.5
1929	1,066	14.2	699	10.4	13,523		9.9	9.9
1930	1,094	16.8	788	10.8	•			11.
1931	820	8.1	330	6.9	•	#2	m	8.4 4
1932	1,246	15.1	942	13.0	•	46	6 10.8	10.8 7,
1933	934	12.6	587	15.7	10,05	85	~7	~7
Average 1921-1929	1,046	13.6	713	14.7	8,8]	11	.1 11.0	.1 11.0 4,849
Average 1930-1933	1,024	12.9	662	11,5	1,18	87	7 9.7	
Ruchole	ole control+od	+0+000	st 1] 66 bushols	not ton				

World production, including Russia, excluding China, from table 1.

Sources of data: University of California, Agricultural Extension Service. Outlook charts and tables. issues. Original source: Annual

Cols. 1, 2, and 3: California Cooperative Crop Reporting Service.

Cols. 5, 6, and 7: 1921-1930: 1931-1933: United States Dept. Agr. Yearbook, 1932. p. 630. United States Dept. Agr. Bur. Agr. Econ. Crops and Markets.



Barley Production in the Seven Principal Barley-Producing States in the United States 1921-1933

TABLE 3

(Thousands of tons*, i.e. 000 omitted)

Vear	California	N 0 1 + 1 − 1	4+102	M**	1012 C C C C C C C C C C C C C C C C C C C	7	NT - 1 - 1 - 1		3
i i	\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	Dakota	Dakota		MISCOMETI	TOWA	Neoraska	Others	Inited States
1921	712.9	407.8	457.0	448.9	255.4	76.7	118.0	1.242.6	3.719.3
1922	826.5	617.0	486.4	577 . 6	341.3	110.5	04.	.306•.	370
1923	793.8	525.1	480.7	577.3	Ω.	80	7	714.	7
1924	402.2	916.2	512.0	702.8	300.3	•	•	•	358
1925	781.3	935.4	571.1	790.7	•	31.	•	.380.	.133.
1926	777.7	505.3	188.6	784.3	431.4		•	,442.	438.
1927	656.1	1,017.9	864.1	1,051.4	513.4	342.2	181.9	,755.	6,382.2
1928	651.3	1,344.3	864.5	1,387.2	574.3		•		,948.
1929	698.6	931.6	859.6	1,290.4	489.4		•	,607.	,726.
1930	787.8	1,056.1	1,025.4	1,292.3	573.7	88	453.1	,735.	•
1931	330.6	443.6	400.4	899.7	456.2	325.2	324.8	1,585.3	,765.
1932	942.1	969.6	1,143.3	1,133.7	568.2	62.		•	250
1933	587.4	439.3	82.8	€88.3	425.1	204.3	201.4	,118.	,747:
Average								,	•
1921-1929	700.0	800.1	587.1	845.6	403.4	242.1	189.4	1,546.0	5,313.7
Average								`	
1930-1933	662.0	727.2	663.0	1,003.5	505.8	320.0	355.0	1,532.2	5,768.7
* Conv	Converted from bushels	shels at 41.	1.66 bushels	els = 1 ton.					

Sources of data:

1921-1930: U. S. Department of Agriculture Yearbook of Agriculture, annual issues.

Francisco. 1931-1933: Federal-State Market News Service: Annual Barley Market Review, June 26, 1934. San



Barley: California Production, Carryover, Exports,
Domestic Supply and Consumption, 1921-22 to 1933-34
(Thousands of tons, i.e. 000 omitted)

Crop year July-June	Production	Carryover	Production plus carryover	Exports	Supply for domestic consumption	Domestic consumption
	1	2	3	4	5	6
1921-22	713	121	834	423	411	364
1922-23	826	47	873	377	496	458
1923 - 24	794	38	832	248	584	527
1924-25	402	57	457	209	250	216
1925-26	781	32	813	314	499	369
1926-27	778	130	908	285	623	579
1927-28	656	44	700	200	500	476
1928-29	764	24	788	251	53 7	467
1929-30	699	70	769	262	507	423
1930-31	788	84	872	240	632	495
1931-32	330	137	467	106	361	298
1932-33	942	63	1,005	199	806	559
1933-34	. 587	247	834	135*	699	514
1934-35	575	185	760			
Average 1921-1929	714	62	776	288	488	432
Average 1930-1934	644	143	787	₁₇₀ ‡	₆₂₅ ‡	466 [‡]

Ton = 41.66 bushels.

Sources of data:

Barley Market Review.

Col. 5: Col. 3 minus col. 4.

^{*} July to May plus average June exports, 1926-1933, 15,000 tons.

[†] Federal-State Market News Service, "Barley Market Roview" June 22, 1934. San Francisco. Estimated as between 550 and 600.

⁺ Four years.

Col. 1: University of California, Agricultural Extension Service, Outlook charts and tables. Annual issues. Original source: California Cooperative Crop Reporting Service.

Col. 2: Grain Trade Association, San Francisco Chamber of Commerce.

Col. 3: Col. 1 plus col. 2.

Col. 4: 1921-22 to May, 1933: Bur. of For. and Dom. Com., San Francisco. 1933-34: Federal-State Market News Service, San Francisco.

Col. 6: Col. 5 minus carryover (col. 2) to the next crop year.



6.

Disposition of California Barley, Averages, 1927-28 to 1929-30, 1930-31 to 1933-34; and 1933-34

		e 1927-28 929-30		933-34	19	933-34
	1	2	3	4	5	6
	1,000 tons	per cent	1,000 tons	per cent	1,000 tons	per cent
Supply:						
1. Production	708.0	98.0	661.8	104.2	587.3	85.0
2. Imports	12.2	2.0		0		
3. Carryover			27.1*	4.2*	100.4	15.0
Total supply used	720.2	100.0	634.7	100.0	687.7	100.0
Disposition:						
4. Exported	237.0	33.0	183.3	29.0	198.6†	29.0
5. California			10.1	3.0	70.0	4.0
malting use			16.1	3.0	30.9	4.0
6. Used for seed	45.0	6.0	46.8	7.0	48.3	7.0
7. Feed - local						
disappearance	438.2	61.0	388.5	61.0	409.9	60.0
Total supply used	720.2	100.0	634.7	1.00.0	687.7	100.0

^{*} Excess of outgoing over incoming carryover.

[†] Includes "Shipments to Eastern States, 1933-34" amounting to 44,000 tons. Sources of data:

Cols. 1 and 2: Braun, E. W. Barley. Series on California Crops and Prices. California Agr. Exp. Sta. Bul. 512. p. 8. 1931.

Cols. 3, 4, 5, and 6: Federal-State Market News Service: Annual Barley Market Roview, San Francisco, June 26, 1934. Compiled from official data except where otherwise noted.



Barley: Exports from California* by Countries of Destination

1921-22 to 1932-33

(Tons of 2,000 pounds)

Crop year (July-June)	United Kingdom	Belgium	Other European	All other countries	Total
1921-22	334,628	25,549	51,515	11,598	423,290
1922-23	285,224	25,768	57,168	8,725	376,885
1923-24	233,877	3,696	9,417	587	247,577
1924-25	161,679	15,509	24,218	7,152	208,558
1925-26	256,590	22,559	25,324	9,127	313,600
1926-27	223,771	19,278	34,488	7,455	284,992
1927-28	177,999	3,627	17,321	1,140	200,087
1928-29	238,849	6,004	5,468	495	250,816
1929-30	231,775	14,435	5,930	9,372	261,512
1930-31 "	208,120	18,595	12,888	242	239,845
1931-32	101,613	2,911	998	302	105,824
1932-33	157,190	39,952	2,021	6	199,169
1933-34	+	+	+	+	135,720 5
Average 1921-22 to 1929-30	238,266	15,158	25,650	6,183	285,257
Average 1930-31 to 1932-33	155,641	20,486	5,303	183	181,613 9

^{*} Exports from San Francisco Customs District. Shipments from San Diego and Los Angeles are very small.

Source of data: Bur. of Foreign and Domestic Commerce, San Francisco.

[†]Bushels converted to tons; 41.66 bushels = 1 ton.

⁺Figures not reported by destination.

July-May plus 15,000 tons for June (an eight-year average 1926-27 to 1932-33).

⁹ Four-year average.



TABLE 7

United Kingdom: Barley Production and Imports, 1921-22 to 1933-34

Year	Production*	Imports (July-June)	Production plus imports
	1 1,000 tons	2 1,000 tons	3 1,000 tons
Average 1921-22 to 1925-26	1,257	928	2,185
1926-27	1,152	712	1,864
1927-28	1,056	7 96	1,852
1928-29	1,272	756	2,028
1929-30	1,248	716	1,964
1930-31	912	916	1,828
1931-32	936	743	1,679
1932-33	936	646	1,582
1933-34	.768	902+	1,670
Average 1921-1929	1,224	846	2,070
Average 1930-1933	888	802	1,690

* Production refers to the year of harvest. Converted at 41.66 bushels per ton.

† July, 1933, to May, 1934.

Sources of data:

Col. 1: Average 1921-22 to 1925-26: U. S. Department of Agriculture Yearbook of Agriculture. 1933. pp. 452-453.

1926-27 to 1933-34: U.S. Department of Agriculture Bureau of Agricultural Economics, Foreign Crops and Markets. March 5, 1934. pp. 254-255.

Col. 2: 1921-22 to 1926-27: U. S. Department of Agriculture Bureau of Agricultural Economics, Foreign Crops and Markets. October 10, 1927. pp. 518-520.

1927-28 to January, 1934: International Institute of Agriculture. International Review of Agriculture. Monthly Crop Report and Agricultural Statistics.

1934: Accounts Relating to the Trade and Navigation of the United Kingdom. H.M.S.O. London. Monthly issues.



Barley Imports into United Kingdom by Countries of Origin, Averages 1910-1914, 1925-1929, 1930-1933; Annual, 1930-1933; Jenuary-April, 1933 and 1934 TABLE 8

1																		
* Tons of 2,000 pounds,	Total	Other countries	hustralia	Chile	Germany	North Africa	Canada T	Western Asia &	Rumenia	British India	United States T	Russia		namen di di		origin	Country of	
od 000,	1,136	74	٣	22	28	49	59	110	120	146	179	348	tons*	1000	L	1910-1914	Average	
, spunc	100	6	0	8	8	4	හ	10	11	13	16	31	cent	per	2	1914	ge	
computed	770	86	12	40	۳	43	104	79	39	17	267	82	tons*	1000	3	1925-1929	Average	
	001	11	۳	ഗ	0	0.	14	10	51	8	C2 C3	11	cent	per	4	1929	age	
from British hundredweights	852	72	4	32	4	9	19	54	124	۳	203	330	tons*	1000	5	19		Q
tish h	100	9	0	4	0	اسا	2	6	15	0	24	39	cent	per	6	1930		Calendar
undred	864	65	18	14	ы	œ	57	139	58	œ	182	314	tons*	1000	7	19		r Years
weight	100	8	2	ب	0	<u> </u>	7	16	7	ш	21	36	cent	per	8	1931		ξΩ
1	570	29	18	15	ш	ب	137	91	30	00	89	153	tons*	1000	9	19		
of 112 pounds.	100	C)	3	3	0	0	24	16	5	Ы	16	27	cent		10	.932		
nds.	895	237	33	29		1	46	!	175	1 1	156	219	tons*	1000	11	19		
	100	27	4	3	1		ധ	1 -	20		17	24	cent	per	12	1933		
	795	101	18	22	73	cn	64	71	97	4	157	254	tons*	1000	13	1920-1933	Averag	
	100	13	2	3	0	<u> </u>	ω	9	12	1 1	20	32	cent	per	14	1933	ಚಕ್ರಿಲ	
	257	& 57	18	∾		1 1	25	1-/+	16		75	36	tons*	1000	15	19	JanMay	
	100	33	7	μ.,	1		10	! !	0		29	14	cent		16	1933		
	361	161	23	17		-#	12	1	43	1 -+	61	44	tons*	1000	17	1934	JanMay	
	100	45	<u>ი</u>	හ	+	<u> </u>	3	 	12	+	17	12	cent	per	18	HZ	ау	

and United States barley to the United Kingdom and Germany for the years 1923 to 1928. + While the sum of the imports from Canada and the United States stated in this table is possibly correct, the division between those from the two countries is probably incorrect. Confusion arises from exports to Europe of (1) Canadian United States and underestimate Canadian exports. He discusses this problem and estimates the real movement of Canadian barley through United States; (2) United States barley through Canada. The true destination of such shipments is obscured by the method of reporting. According to H. C. Grant, "Barley Survey" p. 34-9 (1933), the statistics given overestimate

* Included in "other countries.

Flurkey (Asiatic and European), Iraq and Persia.

Algeria, Tunis and Morocco.

Sources of data:

the United Kingdom with foreign countries and with British countries. Vol. II, Annual issues. 1933-1934: Accounts relating to the trade and navigation of the United Kingdom, monthly issues. 1910-1932: Great Britain Customs and Excise Department, Statistical Office. Annual statement of the trade of



TABLE 9
Estimated Requirements for the Various Uses
of Barley in the United Kingdom, 1928

Kinds of barley	Thousands of bushels
Home-grown malting barley	22,000
Imported malting barley	10,000
Malt products industry	1,500
Pot and pearl barley	500
Distilling	4,500
Home-grown, used on farms	16,500
Home-grown, sold for feed	9,000
Imported feeding barley	13,000
Total utilization	77,000

Source of data: Grant, H. C. Barley survey: A study of barley production, exports, imports, marketing, markets and prices in the principal exporting and importing countries in the world. p. 66. London, H.M.S.O., March, 1933.



Beer Production and Use of Barley for that Purpose in the United Kingdom, 1923-24 to 1932-33

Year	Beer production	Average gravityt	Barley used	California exports 9
(April-March)	bulk barrels*		in beer	to United Kingdom
			production †	as percentage of
				col. 3
	1	2	3	4
	millions	degrees	tons	per cent
1923-24	25.4	1,043.04	848,235	27.6
1924-25	26.7	1,043.12	890,271	18.2
1925-26	26.8	1,043.23	904,375	28.4
1926-27	25.1	1,043.28	864,467	25.9
1927-28	25.4	1,043.31	843,473	21.1
1928-29	24.5	1,043.21	831,125	28.7
1929-30	25.0	1,043.05	818,807	28.3
1930-31	23.8	1,042.69	795,926	26.1
1931-32	20.7	1,041.19	720,055	14.1
1932-33	17.8	1,039.69	561,819	28.0
Average 1923-24 to 1929-30	25.6	1,043.18	857,250	25.4
Average 1930-31 to 1932-33	20.8	1,041.19	692,600	22.5

^{*} Bulk barrel = 36 gallons at gravity at which actually brewed.

[&]quot;To produce a beer of lower specific gravity a larger percentage of imported, sun-ripened, six-rowed barley must be used. As a consequence, while the reduced consumption of beer has decreased the absolute quantity of malting barley demanded, the relative quantity of imported malting barley has increased." Grant, H. C. Barley.... p. 54. 1933.

^{*}Original statistics in terms of malt; figures convorted from malt to barley at 141 pounds barley = 100 pounds malt; based on data in U. S. Tariff Commission.

Barley Malt. Report No. 59, Second Series. p. 19.

⁵ Based on data in tablo 6. Practically all California barley shipped to United Kingdom is used in beer production.

Source of data: Twenty-fourth Report of Customs and Excise, United Kingdom. p. 50.



TABLE 11

12.

Annual Average Prices of Malting Barley, Chicago; California
Shipping Barley, San Francisco; California Superior Malting
Barley, London; and English Malting Barley
1921-22 to 1933-34

(Dollars per hundredweight)*

G	Malting barley	California	California	English +
Crop year	wholesale price, Chicago	shipping barley, San Francisco	superior malting barley,	malting barley
	onreago	ban Tancisco	London	
	August-July	June-May	July-June	September-April
	1	2	3	4 ·
1921-22	1.27	1.40	2.15	2.34
1922-23	1.35	1.51	2.18	1.89
1923-24	1,50	1.59	2.20	2.02
1924-25	1.88	2.37	3.20	2.85
1925-26	1.50	1.60	2.32	2.13
1926-27	1.60	1.52	2.34	2.30
1927-28	1.90	2,38	3.06	2.42
1928-29	1.25	1.76	2.62	2.20
1929-30	1.29	1.57	2.13	1.82
1930-31	1.13	1.25	1.55	1.87
1931-32	1.00	1.27	1.50	1.64
1932-33	0.81	0.73	0.88	1.38
1933-34	1.42 +	0.99	1.195	2.19

^{*} Columns 1 and 2 converted from bushels of 48 pounds; columns 3 and 4 from quarters of 448 pounds.

Sources of data:

Col. 1: U. S. Tariff Commission. Barley malt. Report 59, Second series. p. 13. 1933. (Compiled from Bureau of Labor Statistics, Wholesale Price Bulletin, since April, 1932. Beginning April, 1933, the monthly average prices increased from 92 cents to \$1.54 in April, 1934, the highest price for any month since July, 1927.)

Cols. 2 and 4: 1921-22 to 1929-30: Braun, E. W. Barley. Series on California Crops and Prices. Univ. Calif. Exp. Sta. Bul. 512. p. 28-29. April, 1931.

1930-31 to 1933-34: Broomhall's Corn Trade News.

Liverpool.

Col. 3: Broomhall's Corn Trade News, daily issues. Liverpool. Converted from English to American currency at average monthly rate quoted in Federal Reserve Bulletins.

T Quotations at Hull 1921-22 to 1929-30 and London 1930-31 to 1933-34.

[†] Nine-month average.

⁵ Eleven-month average.



TABLE 12

Barley Malt: United States Production, Consumption,
and Foreign Trade, 1925 to March, 1932

Calendar year	Production*	Exports*	Imports*	Indicated + consumption +	Percentage supplied by imports
	1,000	2 1,000	3 1,000	1,000	5
	bushels	bushels	bushels	bushels	
1925	22,098	4,704	25	17,418	0.14
1927	21,592	2,869	24	18,746	0.13
1929	25,966	3,381	30	22,615	0.13
1930	18,694	2,085	127 #	16,736	0.76
1931	16,246	692	1,173	16,726	7.01
1932 JanMar.	3,529	49	542	4,022	13.47
Average 1925 - 29	23,218	3,651	26	19,593	0,13
Average 1930 – 31	17,470	1,389	650	16,731	3.89

^{*} Bushels of 34 pounds each.

⁺ Production plus imports less exports.

⁺ Since July, 1930, imports from Canada have been about 98 per cent of total.

Source of data: U.S. Tariff Commission: Barley malt. Report No. 59, Second Series, p. 7. 1933. Based on Census of Manufactures, 1925-29, and shipments made by maltsters as reported to the Commission 1930-1932.



TABLE 13
United States: Production of Beer; Barley Malt Used for Beer and for Distilled Spirits and Alcohol, 1921-22 to 1932-33

Year July-June	Production of beer	Estimate of barley malt used for beer	Barley malt used for distilled spirits and alcohol
	l l,000 gallons*	2 1,000 bushels †	3 1,000 bushels
1921-22	196,788	5,579	680
	,		
1922-23	163,339	5,430	444
1923-24	151,621	4,771	1,060
1924-25	158,689	4,414	1,056
1925-26	159,536	5,222	641
1926-27	135,842	4 , 841	497
1927-28	129,022	4,423	385
1928-29	119,846	4,019	359
1929-30	114,111	3,914	647
1930-31	97,247	3,252	643
1931-32	85,746	2,834	506
1932-33	342,829	11,306	560
Average 1921-1929	146,630	4,735	641
Average 1930-1932	175,274	5 , 797	570

^{*} Converted from barrels of 31 gallons.

1

300

⁺ Bushels of 34 pounds.

Source of data: U. S. Tariff Commission: Barley Malt. Report No. 59, Second Series. p. 23. 1933. Compiled from U. S. Bureau of Industrial Alcohol, Statistics Concerning Intoxicating Liquors, annual reports.



TABLE 14

Production and Sales of Beer by California Breweries, March, 1933 to May, 1934

Year	Beer pro-	Sales within state	Sales outside of state	Total sales
	1	2	3	4
	l,000 gallons*	1,000 gallons	1,000 gallons	1,000 gallons
1933 - March	906	+	+	†
April	1,913	2,514	†	2,514
May	3,397	2,717	162	2,879
June	4,058	2,857	338	3,195
July	5,501	3,215	468	3,683
August	5 , 053	3,621	702	4,323
September	3,818	3,245	594	3,839
October	3 , 332	3,480	398	3,878
November	3 , 890	3,025	273	3,298
December	3 , 799	2,656	506	3,162
1934 - January	3 , 856	2,665	468	3,133
February	4,268	3,004	565	3,569
March	6,094	4 , 733	662	5,395
April	7,097	4,747	*	4,747
May	7,998	‡	‡	+
Average MarDec., 1933	3 , 567	3,037 🛇	382 <i>b</i>	3,419 <mark>5</mark>
Average JanMay, 1934	5,8 63	3,787	424	4,211

^{*} Converted from barrels of 31 gallons.

Sources of data:

Col. 1: United States Treasury Department, Bureau of Internal Revenue, Alcohol Tax Unit, San Francisco.

Cols. 2-4: Federal Reserve Bank of San Francisco, Department of the Federal Reserve Agent, Division of Analysis and Research.

⁺ None reported.

⁺ Not available.

[&]amp; Average, Apr.-Dec., 1933.

| Average, Jan.-Apr., 1934.



California: Numbers of Cattle and Hogs; Chick Sales, and Egg Shipments

	JenMay, 1934	JanMay, 1933	1930-1934	1925-1929	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925					Year	
\$0000000000000000000000000000000000000			1,927	2,022	1,850	1,887	1,926	2,006	1,967	2,049	2,070	2,029	1,970	1,990		thousends	l		and calves*	All cattle
			631	C16	619	625	631	637	642	637	625	613	607	595		thousands	2	and over	2 years old	Milk cows
			147	145	138	142	145	154	157	155	150	143	137	140		thousands	3		(1 - 2 years)	Milk heifers
			1,149	1,261	1,093	1,120	1,150	1,215	1,168	1,257	1,295	1,273	1,226	1,255		thousands	4	COWS	thrn milk	Cattle other
			633	581	635 9	706	672	560	590	650	670	585	468	532		thousands	5		Hogs	
	3 30	315	1,507	1,739		854	1,330	1,796	2,046	2,000	2,238	1,787	1,475	1,195		carlots	0.		from California	Egg shipments
	3,140 //	3,942 11	8,5059	7,843		5,556	5,671	9,025	10,933	9,177	7,544	6,808	1	1	chicks	thousands of	7		in California	Hatchery sales

Tonly first nine months available. Estimates of livestock on farms and ranges in California on January 1. Column 1 is the sum of cols. 2, 3, and 4.

1935 10 to 15 per cent below that of January 1, 1934. Agricultural Adjustment Administration corn-hog reduction program is likely to reduce inventory of hogs January + Under the National Recovery Administration code hatcheries plan to cease operations during July and August, 1934.

1 Three-year average.

Sources of data: || January-April.

Cols. 1, 2, 3, 4, and 5: California Cooperative Grop Reporting Service. Annual Livestock Summaries.

Col. 6: Voorhies, E. C., and J. B. Schneider. Egg Statistics Relating to the Southern Counties of California Calif. Agr. Exp. Sta. Giannini Foundation Mimeo. Report No. 33. p. 25. 1934; data from American Creamery and Poultry Produce Review weekly issues and Federal-State Market News Service, San Francisco.

Col. 7: 1927-1932: California Cooperative Crop Reporting Service, monthly reports

1933-April, 1934: Federal-State Market News Service, San Francisco



Annual Average Wholesale Prices of Feed Barley and Competing Commodities at San Francisco, Los Angeles, and Minneapolis, 1921-22 to 1933-34 (Dollars per hundred pounds)

	9.म	Feed barley		Feed wheat	Feed concentrates	No. 2 yellow corn	Sacked milo
Year	San Francisco	Los Angeles	Minneapolis	San Francisco	San Francisco	Los Angeles	Los Angeles
	June-May	June-May	July-June	June-May	April-March*	July-June	June-May
	₽	2	3	4	5	6	7
1921-22	1.28	1.39	1.16	2.04	1.71	-	1
1922-23	1.43	1.51	1.21	1.97	2.02	1.83	§ 1
1923-24	1.50	1.65	1.34	1.85	2.08	1.90	1
1924-25	2.13	2.22	1.76	2.73	2.30	2.44	1
1925-26	1.41	1.60	1.38	2.57	2.12	1.96	!
1926-27	1.32	1.43	1.48	2.26	1.90	1.90	1
1927-28	1.93	2.06	1.74	2.19	2.10	2.11	1
1928-29	1.61	1.74	1.37	2.13	2.13	2.11	1.93
1929-30	1.43	1.54	1.21	2.07	2.00	2.02	1.95
1930-31	1.05	1.19	0.98	1.42	1.58	1.66	1.56
1931-32	1.07	1.15	1.00	1.16	1.25	1.24	1.09
1932-33	0.63	0.74	0.68	1.02	1.00	0.98	0.92
1933-34	0.86	1.02	1.40+	1.27	1.16	1.18	1.18

1; cracked corn, weights assigned to ingredients: Ground pariey, 4; bran, 5; cottonseed, 2; linseed, 2; beet pulp, 2; rolled

+ Eleven months.

* Ten months.

Sources of data:

issues. Compiled from records of San Francisco Grain Trade Association. Col. 4: June, 1921 - Mry, 1927: San Francisco Grain Exchange. Cols. 1 to 3: University of California, Agricultural Extension Service. Outlook charts and tables. 4nnual

Press weekly issues. Beet pulp, linseed: San Francisco Chronicle, daily. June, 1927 - May, 1934: Pacific Rural Press, weekly issues.
April, 1921 - March, 1931: Ground barley, bran, cottonseed, cracked corn, rolled oats. Pacific Rural

April, 1931 - March, 1934: Bran, cottonseed, linseed: Federal-State Market News Service, San Fran-

cisco.

Others from Pacific Rural Press, weekly issues

Col. 6: July, 1921 - February, 1928: California Cultivator, weekly issues. March, 1928 - June, 1934: Los Angeles Grain Exchange, Daily Bulletin.

June, 1928 - May, 1934: Los Angeles Grain Exchange, Daily Bulletin.



TABLE 17

Ratios of Feed Barley Prices to Prices of Competing Feeds

1921-22 to 1933-34

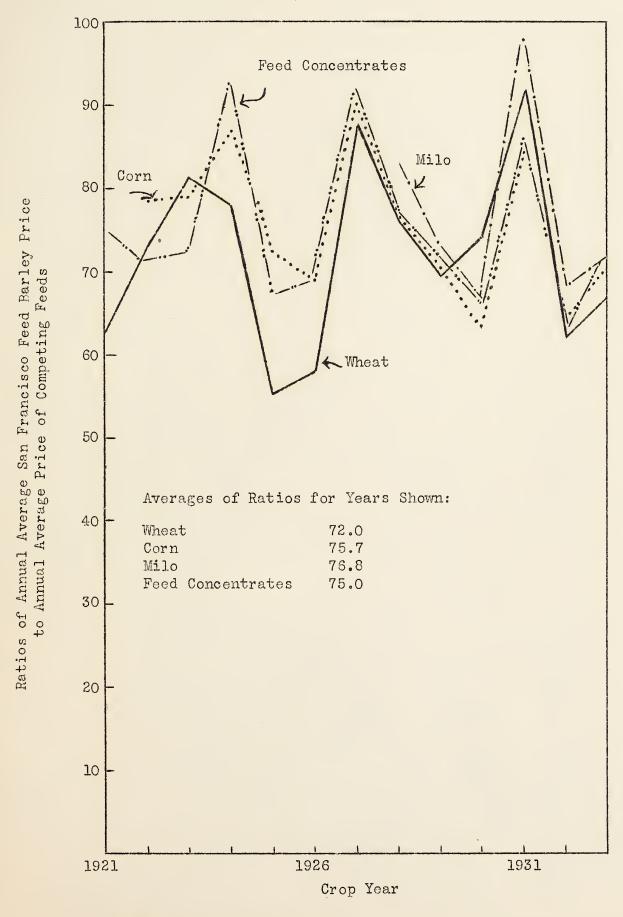
Crop year	Ratio of barley price to wheat price	Ratio of barley price to corn price	Ratio of barley price to sacked milo price	Ratio of barley price to feed concen- trates price
•	1	2	3	4
	per cent	per cent	per cent	per cent
1921-22	63	esh gas	tore tore	75
1922-23	73	78		71
1923-24	81	79		72
1924-25	78	87		93
1925-26	55	72	an	67
1926-27	58	69		69
1927-28	88	91	. ==	92
1928-29	76	76	83	76
1929-30	69	71	73	72
1930-31	74	63	67	66
1931-32	92	86	98	86
1932-33	62	64	68	63
1933-34	67	72	72	73
Average 1921-1933	72.0	75.7*	76.8*	75.0

^{*} Average for years shown.

Source of data: Computed from data in table 16, using San Francisco feed barley prices. Crop years are not identical in all cases.



Ratios of Feed Barley Prices to Prices of Competing Feeds 1921-22 to 1933-34



Source of data: Table 17.

